

OmniCure AC550 / AC550P and AC575 / AC575P

High Power, Small Area
UV LED Curing System for
Adhesives, Coatings and Inks



Exceptional irradiance performance for
accommodating different working distances

Superior uniformity to maximize the addressable
curing area

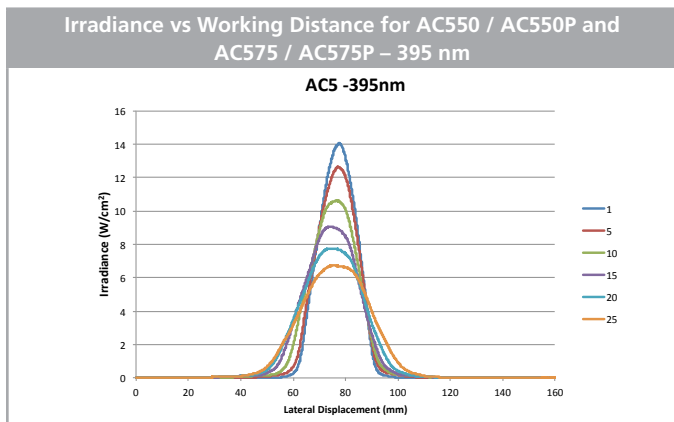
Flexibility with control for repeatable curing results

Ease of integration via compact, air-cooled LED design



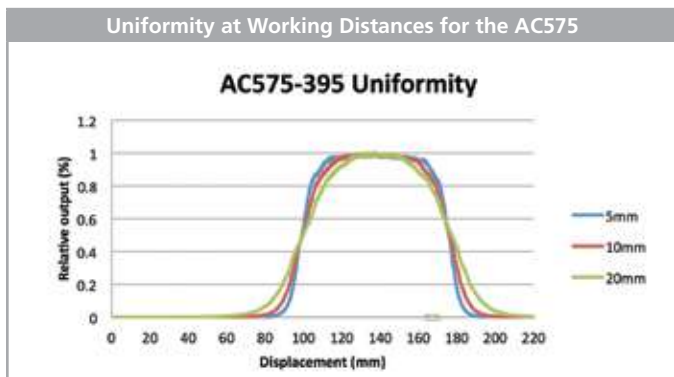
Superior Optical Performance

The OmniCure® AC550, AC550P, AC575 and AC575P air-cooled UV LED curing systems are designed with advanced front-end optics to provide high power, high peak irradiance and exceptional uniformity at different working distances. The systems deliver 14W/cm² peak irradiance for fast, even curing at long working distances. The print versions of the AC5 Series have enhanced optics to optimize the dose for short working distances along with a removable window for easy cleaning to support print applications. By adapting the output to support the process requirements of the industry, the new AC5 Series' product portfolio can be applicable for a range of varying applications with different process needs.



Exceptional Uniformity

Utilizing Excelitas Technologies® patented process for individually addressing each UV LED module output, the OmniCure AC5 Series offers consistent results by ensuring high longitudinal uniformity over the entire 50 mm (2") to 75 mm (3") curing areas. A uniform exposure area allows for curing of larger and/or multiple parts simultaneously. It also offers the ability to convert a static curing process to one where parts are being cured while in motion in order to increase throughput.



Flexibility with Control

Precise control of the UV irradiance level and time ensures that the correct dose of UV energy at the required wavelength is provided on every exposure for a repeatable curing process. Intelligent system monitoring and control ensures system reliability meets the demands for any application.

Ease of Integration

The air-cooled, compact LED head design eliminates the need for external cooling or ozone extraction while simplifying integration. The AC5 Series UV LED curing systems can also be mounted in any orientation, using different wavelengths for greatest flexibility. External mechanical and optical accessories are also available for use in similar applications.

Technical Specifications

| | AC550 / AC550P | AC575 / AC575P |
|--|---------------------------------|----------------|
| LED Peak Wavelengths | 395 nm ± 5 nm | |
| Active Optical Area | 50 x 25 mm | 75 x 25 mm |
| Typical Peak Irradiance (W/cm ²) | 395 nm | |
| Working Distance | 1 mm | 14 |
| | 5 mm | 12.6 |
| | 10 mm | 10.6 |
| | 15 mm | 9.0 |
| | 20 mm | 7.7 |
| | 25 mm | 6.7 |
| Optical Power | 123 W | 184 W |
| Power Consumption* | 330 W | 480 W |
| Longitudinal Uniformity* | Better than ± 10% | |
| Operating Voltage | 48 V DC ± 2 V | |
| Dimensions (L x W x H) | 110 x 68 x 190 mm | |
| Weight | 1.1 kg | |
| Cooling | Air | |
| Acoustic Noise | < 65 dB | |
| Life Expectancy | > 20,000 hours | |
| Automation | Integrated PLC controls for UV | |
| LED Warranty | 2 years or 10,000 service hours | |

*At 100% intensity setting.

Mechanical Drawings

Mechanical drawings are available upon request. To find out more about the OmniCure AC Series UV LED curing solutions, please visit www.excelitas.com.

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